

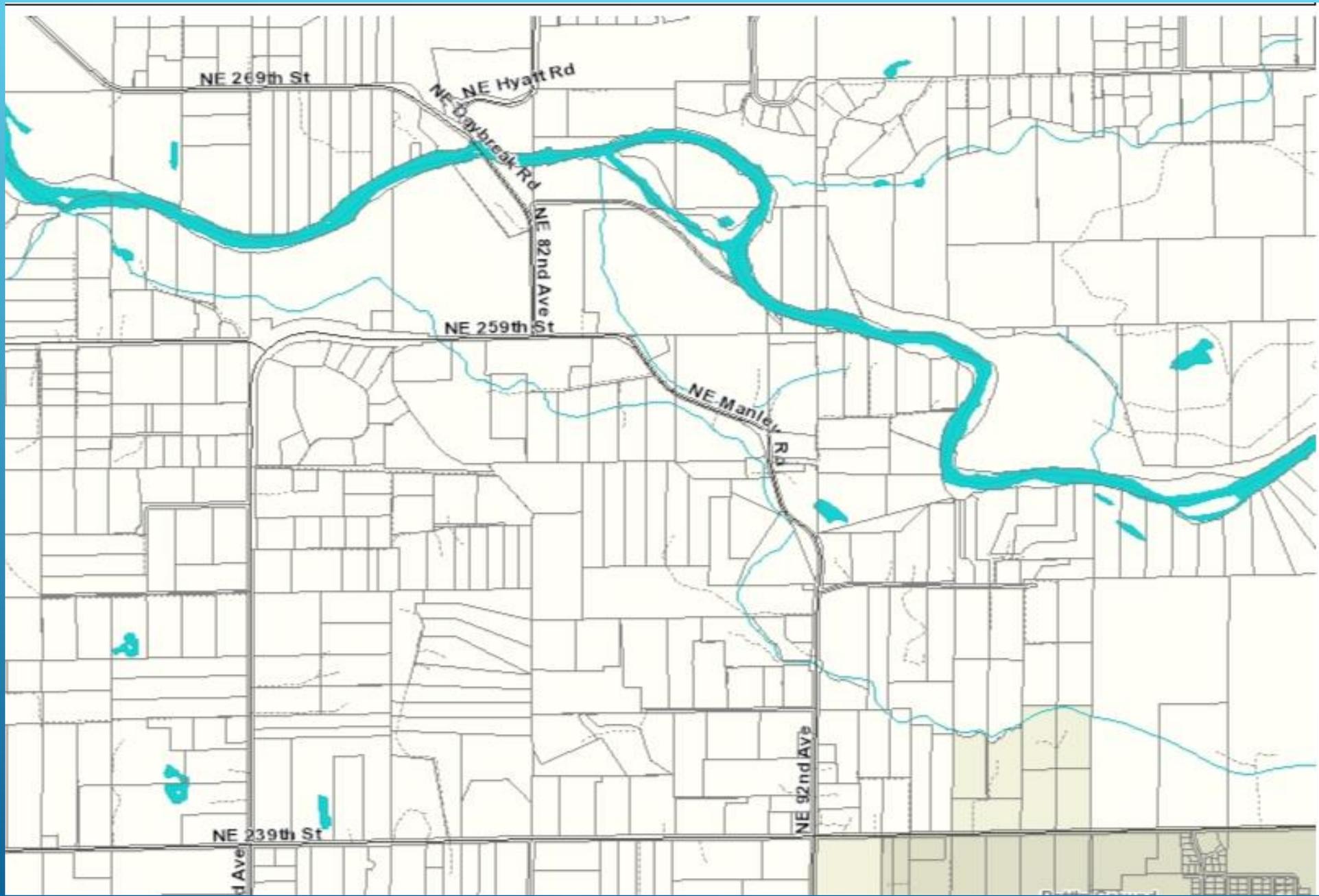


IMPROVING SHADE AND TEMPERATURE DEFICITS – MIDDLE EAST FORK LEWIS RIVER



East Fork Lewis Water Quality Issues

- temperature and FC impairments exceed Washington State's Water Quality Standards for all tributaries of the East Fork
- RM 10.1 has a 7-DADMax value of 23.0 degrees Celsius – state standard is 16 degrees
- Above 18 degrees Celsius all salmon life history stages can be effected – chinook and chum spawn in East Fork from RM 10 to mouth – winter and summer steelhead are present
- Manley Creek shows a value of 22.0 degrees at RM 10 – coho present in Manley Creek
- Daily effective shade- July 1, at RM 10.1 is calculated in the Report at only 19%.
- Riparian conditions are 'very poor to non-existent' in the lower one to two miles of Manley Creek



Manley Creek

Write a description for your map.

Legend
Daybreak Park









MANLEY CREEK

PROJECT COMPONENTS

- 1) Multi-year approach to riparian restoration along 2,400 feet Manley Creek owned by Clark County – 10 acres
- 2) Outreach to all remaining property owners focusing on East Fork water quality issues (temperature and FC)

Project Partners:

- **Clark County**
- **Clark Conservation District**
- **Friends of the East Fork**
- **Clark Skamania Fly Fishers**

RIPARIAN RESTORATION

Invasive plant control

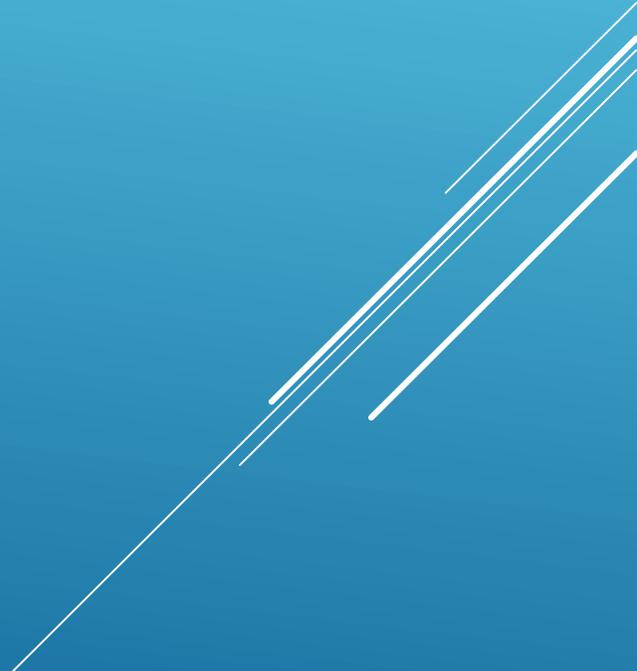
- Reed canary grass
- Initial site treatment Year 1
- site maintenance over next 2 years

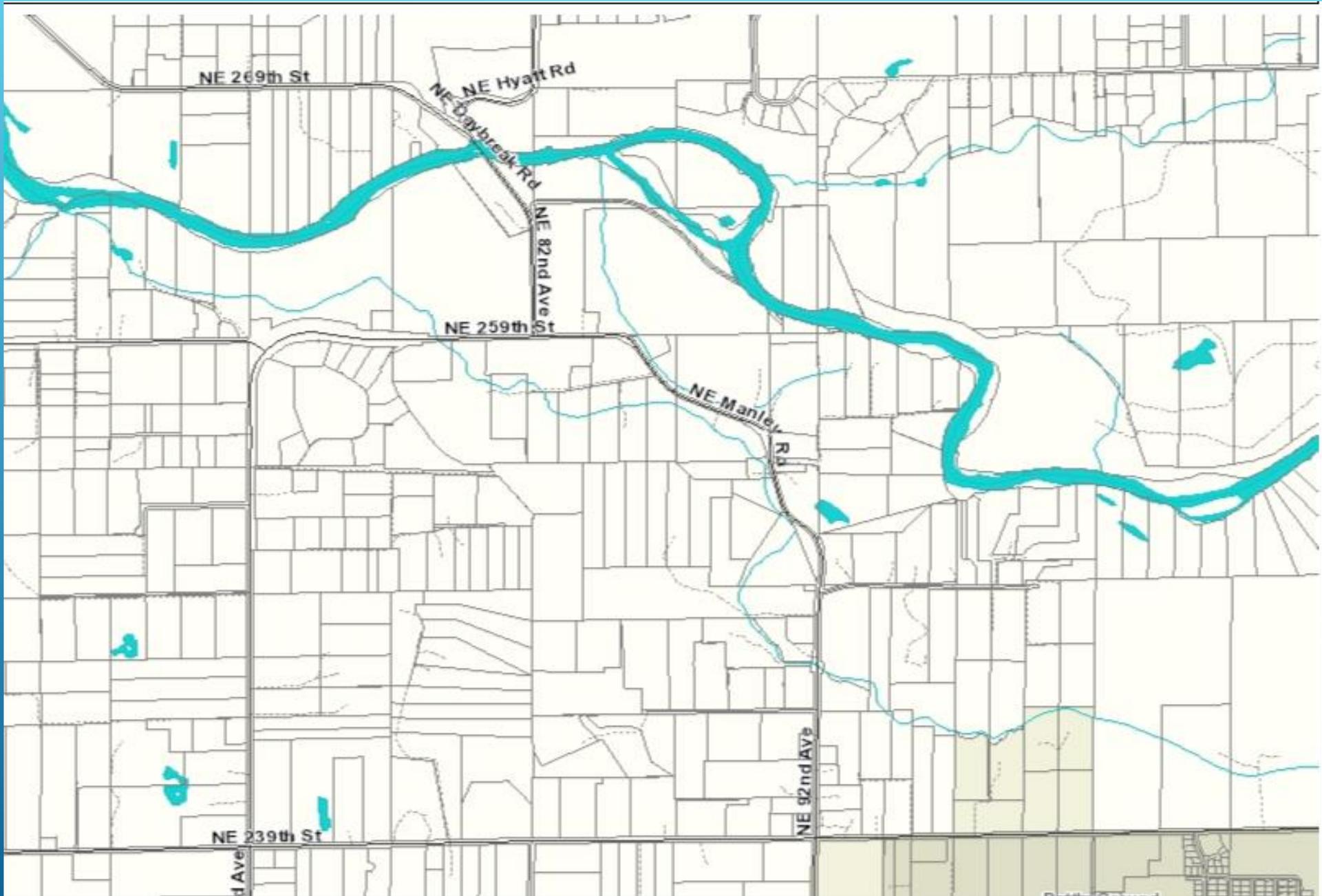
Recreating the Forest Buffer

- 3-year planting effort
- Dense planting of early successional native trees and shrub species Year 1
- Plant survival surveys Year 2 and 3
- Replanting rate in Year 2 – 20%
- Replanting rate Year 3 – 10%

KEY TO MANLEY CREEK WATER QUALITY IMPROVEMENTS

PUBLIC AND PRIVATE PROPERTIES





OUTREACH TO REMAINING PROPERTY OWNERS

- ~ 34 private property owners
 - Door to door outreach
 - Information on causal factors leading to temperature and FC impairments
 - Septic system compliance
 - Assess interest in improving shade deficit on their property
 - Landowner acknowledgement form
 - Future grants tackle private property issues
- 